MATERIAL SAFETY DATA SHEET

MANUFACTURERS' NAME: ADVANCED COATINGS & CHEMICALS

Subsidiary of Olin Hunt Specialty Products, Inc.

4343 Temple City Blvd. Temple City, CA 91780 DATE OF . . EPARATION:

1-9-87

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5. ACENOV DUONE NO.	/R1R1	570.6270
EMAGENCY PHONE NO:	(010)	313-0E10

SECTION	I-PRODUCT	IDENTIFICATIO	N

PRODUCT FORMULA:

3-1X-58

PRODUCT NAME:

URAFILM TFE ANTI-CHAFE GRAY # 36081

PRODUCT CHEMICAL FAMILY:

POLYTETRAFLOURO ETHYLENE

		-HAZARDOUS IN		
	CAS		E LIMITS IN AIR	IARC, NTP OSHA HAZARD
INGREDIENTS	NUMBER	OSHA PEL	ACGIH TLV	EVALUATION
POLYTETRAFLOURO ETHYLENE	9002-84-0	15mg/m ³	10mg/m ³	NON-CARCINGGENIC
				NON-CARCINOGENIC EPICHLORHYDRIN-CARCINOGE
POXY	25068-38-6	5ppm	2 ррт	IARC VOL. 11, PAGE 131
AZELAIC ACID	123-99-9	NOT EST.	NOT EST.	NON-CARCINOGENIC
TITANIUM DIOXIDE	1314-13-2	15mg/m ³	5mg/m ³	NON-CARCINOGENIC
ARYTES	7727-47-7	15mg/m ³	10mg/m ³	NON-CARCINOGENIC
ALUMINA	1344-28-7	5mg/m ³	10mg/m ³	NON-CARCINOGENIC
TTTT, 3-ETHOXY PROPIONATE	763-69-0	NOT EST.	NOT EST.	NON-CARCINOGENIC
ETHYL NORMAL AMYL KETONE	110-43-0	100ppm	100ppm	NON-CARCINOGENIC
ETHYL ETHYL KETONE	78-93-3	200ppm	200ppm	NON-CARCINOGENIC
CARBON BLACK	1333-86-4	3.5mg/m ³	3.5mg/m ³	NON-CARCINOGENIC
ELLOW OXIDE	12259-21-1	10gm/m ³	5mg/m ³	NON-CARCINOGENIC
	SECT	ION III—PHYSICA	L DATA	
BOILING POINT: 175°F		SPECI	IFIC GRAVITY:	1.21
VAPOR DENSITY (AIR = 1): HEAVIER		% VO	LATILE BY VOLUME:	56%
SOLUBILITY IN WATER: NEGLIGIBLE		EVAPO	ORATION RATE: SLO	WER
VAPOR PRESSURE: @20°C		_ mm.Hg.	(L ACETATE = 1)	
	SECTION IV-FI	RE AND EXPLOSI	IVE HAZARD DAT	A
20		1.05	% by Volume UEI	g. 10.0 % By Votu

EXTINGUISHING MEDIA: Foam, Dry Chemical, CO2 and/or Water Fog UNUSUAL FIRE AND EXPLOSION HAZARDS:

During a fire, irritating and toxic gases and smoke are present from decomposition. Isolate from heat, sparks and open flames. Closed containers may burst when exposed to extreme heat. Vapors form an explosive mixture in air between the upper and lower explosive limits. The same magazinese. Sull amazzanov accioment with sall-contained breathing apparatus should be worn by firefighters.

BOE-C6-0226910

SECTION V—HEALTH HAZARD DATA

EFFECTS OF ACUTE OVEREXPOSURE:

Eyes: Can cause severe irritation, redness, tearing and blurred vision. Skin: Prolonged or repeated contact can cause irritation. Defatting to skin. Inhalation: Dizziness, breathing difficulty, headaches and loss of coordination.

Ingestion: Damage to throat and esophagus, vomitting and diarrhea.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Asthma, respiratory tract irritation, dermatitis. Kidney and liver problems, conjunctivitis.

PRIMARY ROUTES OF ENTRY: Dermal, inhalation, ingestion.

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: Flush with large amounts of water for 15 minutes. Skin Contact: Wash thoroughly with soap and water. See a doctor

Inhalation Over Exposure: Move person to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention.

Ingestion: Do not induce vomitting. Can cause chemical pneumonitis and pulmonary edema. Contact physician immediately.

OTHER HEALTH HAZARDS: EFFECTS OF CHRONIC OVEREXPOSURE:

EYES: Blurred vision. Conjuctivitis. SKIN: Sensitization, dermatitis. INHALATION: Asthma-like symptoms. Central nervous system effects. INGESTION: Damage to throat. Possible kidney and liver impairment.

SECTION VI—REACTIVITY DATA

STABLITY: Stable

H. RDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide; carbon dioxide, oxides of nitrogen, various hydrocarbon and acrid fumes.

CONDITIONS TO AVOID:

Excessive heat, poor ventilation. Corrosive atmosphere, excessive aging, sparks and open flames.

INCOMPATIBILITY (MATERIAL TO AVOID):

Alkaline materials, strong acids and oxidizing materials.

SECTION VII—SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Eliminate ignition sources; provide good ventilation; dike spill area and add absorbent material to spilled liquid. Thoroughly wet with water and mix.

WASTE DISPOSAL METHOD:

Collect absorbent/water/spilled liquid mixture into metal containers and add enough water to cover. Consult local, state and federal hazardous waste regulations before disposing into approved hazardous wastes landfills. Obey relevant laws.

SECTION VIII-	_SAFE	HANDLING	AND	USE I	INFO	RMATIC	NC
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RESPIRATORY PROTECTION:

When spraying and/or printing this material, use a NIOSH-approved cartridge respirator or gas mask suitable for airborne mists and vapor concentrations below the time-weighted threshold limit values. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

VENTILATION:

General mechanical ventilation or local exhaust should be suitable to keep vapor concentration below TLV. Ventilation equipment must be explosion-proof.

PROTECTIVE GLOVES: Impermeable chemical handling gloves for skin protection.

EYE PROTECTION: Use chemical safety glasses, goggles and face shields for eye protection.

OTHER PROTECTIVE EQUIPMENT:

Use impermeable aprons and protective clothings when ever possible to prevent skin contact. The use of head caps when ever possible is strongly recommended.

HYGIENIC PRACTICE: Eye washes and safety showers in the work palce is recommended.

SECTION IX—SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Use in cool, well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames.

OTHER PRECAUTIONS:

Smoking in areas where this material is used should be strictly prohibited. Tools used with this material should be aluminum, brass or copper. Plastic tools should not be used. Since emptied containers retain product residues, (vapors, liquid and/or solid) all hazard precautions should observed

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SECTION X—TRANSPORTATION DATA				
PROPER SHIPPING NAME: PAINT UN1263				
DOT CLASSIFICATION: FLAMMABLE	DOT LABEL: RED			
PRECAUTIONS TO BE TAKEN IN TRANSPORTATION: _	Refer to Section IX			

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